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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/635,073	08/06/2003	Douglas Gene Keithley	10021152-1	7215
22878	7590 10/02/2006		EXAMINER	
	TECHNOLOGIES INC.	PENDLETON, BRIAN T		
INTELLECTUAL PROPERTY ADMINISTRATION, M/S DU404 P.O. BOX 7599			ART UNIT	PAPER NUMBER
	O, CO 80537-0599	2615		
			DATE MAILED: 10/02/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
		10/635,073	KEITHLEY, DOUGLAS GENE		
	Office Action Summary	Examiner	Art Unit		
		Brian T. Pendleton	2615		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet wit	th the correspondence address		
A SH WHIC - Exter after - If NC - Failu Any (ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Openod for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC 36(a). In no event, however, may a re will apply and will expire SIX (6) MONIC c, cause the application to become AB.	CATION. eply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).		
Status					
1)🖂	Responsive to communication(s) filed on 06 As	ugust 2003.			
2a) <u></u>	This action is FINAL . 2b) This action is non-final.				
3)	Since this application is in condition for allowar	nce except for formal matte	ers, prosecution as to the merits is		
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D.	. 11, 453 O.G. 213.		
Dispositi	ion of Claims				
5)⊠ 6)⊠ 7)⊠	Claim(s) <u>1-18</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) <u>1-11</u> is/are allowed. Claim(s) <u>12</u> is/are rejected. Claim(s) <u>13-18</u> is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.			
Applicati	ion Papers				
10)🖾	The specification is objected to by the Examine The drawing(s) filed on <u>06 August 2003</u> is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	a)⊠ accepted or b)⊡ obj drawing(s) be held in abeyand ion is required if the drawing(ce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).		
Priority u	ınder 35 U.S.C. § 119				
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Aprity documents have been in (PCT Rule 17.2(a)).	pplication No received in this National Stage		
Attachment	• •	_			
2) 🔲 Notice 3) 🔯 Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	Paper No(s)	ummary (PTO-413))/Mail Date formal Patent Application 		

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Goodings, US

Patent 6,944,284 in view of Burns et al, US Patent 4,924,511 Goodings discloses an apparatus

comprising a digital circuit (inherently having an IC), tone generators 100 and 101, and volume

pulse control 150 for modulating the audio frequency square-wave signal generated by tone

generators 100 and 101. Goodings does not disclose a filter for filtering the modulated square

wave signal. Burns et al teach a low pass filter for filtering the high frequency harmonics from a

square wave signal. The benefit of such action was to isolate a single sine wave for

reproduction. It would have been obvious to one of ordinary skill in the art at the time of

invention to modify Goodings et al per the teachings of Burns et al for the purpose of alerting a

user via an audio transducer without unpleasant high frequency tones.

Allowable Subject Matter

Claims 1-11 are allowed.

Claims 13-18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

Independent claims 1 and 7, along with dependent claim 13, recite comparing (or using a comparator) a digital count to a register holding a volume control value for forming a modulation signal and modulating the square wave audio signal with the modulation signal. The prior art of record do not disclose nor suggest digital counter or volume control value register. References Kutzavitch et al and Burgan et al each teach tone generation who volume is controlled by pulsewidth modulation. However, the references do not teach nor suggest a volume control register or digital counter.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian T. Pendleton whose telephone number is (571) 272-7527. The examiner can normally be reached on M-F 7-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on (571) 272-7848. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Brian T. Pendleton Primary Examiner Art Unit 2615

btp

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